PENDING CLAIMS

- 50. A method for screening candidate compounds capable of inhibiting HMGI biological activity comprising the steps of:
 - a) transfecting into a cell a DNA construct which contains a reporter gene under the control of an HMGI protein-regulated promoter;
 - b) administering to the cell a candidate compound;
 - c) measuring the levels of reporter gene expression in the presence and absence of the candidate compound; and
 - d) determining from the levels of reporter gene expression which candidate compounds modulate the HMGI biological activity.
- 53. The method according to claim 50, wherein the candidate compound inhibits HMGI biological activity in the amount of at least 10%.
- 54. The method according to claim 50, wherein the candidate compound inhibits HMGI biological activity in the amount of at least 25%.
- 55. A method for screening candidate compounds capable of inhibiting HMGI biological activity comprising the steps of:
 - a) immobilizing an HMGI protein, or a fragment thereof, on a solid surface, wherein the fragment includes a biologically active region of the HMGI protein;
 - b) incubating the HMGI protein, or the fragment thereof, with a candidate compound under conditions which promote optimal interaction;
 - c) identifying whether the candidate compound binds to the HMGI protein, or the fragment thereof; and

- d) determining whether the candidate compound modulates HMGI biological activity from its ability to bind to the HMGI protein, or the fragment thereof.
- 56. A method for screening candidate compounds capable of inhibiting HMGI biological activity comprising the steps of:
 - a) immobilizing an HMGI protein on a solid surface;
 - b) incubating the HMGI protein with a candidate compound under conditions which promote optimal interaction;
 - c) identifying whether the candidate compound binds to the HMGI protein; and
 - d) determining whether the candidate compound modulates HMGI biological activity from its ability to bind to the HMGI protein.
- 57. A method for screening candidate compounds capable of inhibiting HMGI biological activity which comprises the steps of:
 - a) immobilizing an HMGI protein on a solid surface;
 - b) incubating the HMGI protein with a candidate compound under conditions which promote optimal interaction;
 - c) identifying candidate compounds which bind to the HMGI protein;
 - d) transfecting into a cell a DNA construct which contains a reporter gene under the control of an HMGI protein-regulated promoter;
 - e) administering to the cell a candidate compound from step (c);
 - f) measuring the levels of reporter gene expression in the presence and absence of the candidate compound; and
 - g) determining from the levels of reporter gene expression which candidate compounds modulate the HMGI biological activity.

- 58. The method according to claim 57, wherein the candidate compound inhibits HMGI biological activity in the amount of at least 10%.
- 59. The method according to claim 57, wherein the candidate compound inhibits HMGI biological activity in the amount of at least 25%.
- 60. (New) A method for screening candidate compounds capable of inhibiting HMGI biological activity which comprises the steps of:
 - a) immobilizing an HMGI protein, or a fragment thereof, on a solid surface, wherein the fragment includes a biologically active region of the HMGI protein;
 - b) incubating the HMGI protein, or the fragment thereof, with a candidate compound under conditions which promote optimal interaction;
 - c) Centifying candidate compounds which bind to the HMGI protein, or the fragment thereof;
 - d) transfecting into a cell a DNA construct which contains a reporter gene under the control of an HMGI protein-regulated promoter;
 - e) administering to the cell a candidate compound from step (c);
 - f) measuring the levels of reporter gene expression in the presence and absence of the candidate compound; and
 - g) determining from the levels of reporter gene expression which candidate compounds modulate the HMGI biological activity.
- 61. (New) The method according to claim 60, wherein the candidate compound inhibits HMGI biological activity in the amount of at least 10%.
- 62. (New) The method according to claim 60, wherein the candidate compound inhibits HMGI biological activity in the amount of at least 25%.